

WHAT IS CLAIMED IS:

1. A filament having a core surrounded by a plurality of respective layers and being indicative of a level of wear of a fabric comprised thereof.

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2. The filament of claim 1, wherein the core and the respective layers are distinguishable from one another by their differing properties.

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3. The filament of claim 1, wherein the indicated level of fabric wear is associated with a wear level through the respective layers.

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4. The filament of claim 2, wherein one of the differing properties is color.

5. The filament of claim 2, wherein one of the differing properties is reflectivity.

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6. The filament of claim 1, wherein the core and the respective layers are visibly distinguishable from one another.

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7. The filament of claim 1, comprising a light absorbing core and transparent layers having varying refractions.

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8. The filament of claim 7, wherein light reflected by the core changes color depending on the wear level through the transparent layers.

9. The filament of claim 1, comprising a light transmitting core and transparent layers having varying refractions.

5 10. The filament of claim 9, wherein light transmitted from the core changes color depending on the wear level through the transparent layers.

10 11. The filament of claim 1, wherein one or more of the core and the respective layers are doped with dyes.

15 12. The filament of claim 11, wherein the dye is detectable by a sensor when excited by an external energy source.

13. The filament of claim 1 wherein the filament has a round or non-round shape.

20 14. The filament of claim 1 wherein the filament comprises some or all of a multifilament yarn.

25 15. A fabric comprising one or more filaments each having a core surrounded by a plurality of respective layers and being indicative of a level of fabric wear.

30 16. The fabric of claim 15, wherein the core and the respective layers are distinguishable from one another by their differing properties.

17. The fabric of claim 15, wherein the indicated level of fabric wear is associated with a wear level through the respective layers.

5 18. The fabric of claim 16, wherein one of the differing properties is color.

19. The fabric of claim 16, wherein one of the differing properties is reflectivity.

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20. The fabric of claim 15, wherein the core and the respective layers are visibly distiguishable from one another.

15 21. The fabric of claim 15, wherein each filament comprises a light absorbing core and transparent layers having varying refractions.

22. The fabric of claim 21, wherein light
20 reflected by the core changes color depending on the wear level through the transparent layers.

23. The fabric of claim 15, wherein each
filament comprises a light transmitting core and
25 transparent layers having varying refractions.

24. The fabric of claim 23, wherein light
transmitted from the core changes color depending on
the wear level through the transparent layers.

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25. The fabric of claim 15, wherein one or more of the core and the respective layers are doped with dyes.

26. The fabric of claim 25, wherein the dye is detectable by a sensor when excited by an external energy source.

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27. The filament of claim 15 wherein the filament has a round or non-round shape.

28. The filament of claim 15 wherein the
10 filament comprises some or all of a multifilament yarn.

29. A filament indicative of a level of wear of a fabric comprising one or more conductive
15 monofilaments.

30. The filament of claim 29, wherein the indicated level of fabric wear is associated with a wear level through the conductive monofilament.

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31. The filament of claim 29 wherein the filament has a round or non-round shape

32. A fabric comprising one or more conductive
25 monofilaments indicative of a level of fabric wear.

33. The fabric of claim 32, wherein the indicated level of fabric wear is associated with a wear level through the conductive monofilaments.

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34. The fabric of claim 32 wherein some or all of the conductive monofilaments have a round or non-round shape.

35. The fabric of claim 32 wherein the conductive monofilament comprises some or all of a multifilament yarn.

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36. A filament having a core surrounded by a plurality of layers, and forming a visible guideline on a fabric comprising said filament.

10 37. The filament of claim 36, wherein the fabric is used on a papermaking machine, and the guideline is used for one of determining fabric alignment, on-line speed measurements, or a trigger for a guiding system.

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38. The filament of claim 37, wherein the guideline runs in a cross machine direction.

20 39. The filament of claim 37, wherein the guideline runs in a machine direction.

40. The filament of claim 36, wherein the guideline resists removable by high-pressure showers or chemical cleaning.

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41. The filament of claim 36 wherein the filament has a round or non-round shape.

30 42. The filament of claim 36 wherein the filament comprises some or all of a multifilament yarn.

43. A conductive monofilament having a contrasting color and used as a guideline on a fabric comprising said monofilament.

5 44. The filament of claim 43 wherein the filament has a round or non-round shape.

10 45. The filament of claim 43 wherein the filament comprises some or all of a multifilament yarn.

46. The fabric having a guideline comprised of a conductive monofilament with a contrasting color.

15 47. The fabric of claim 46, wherein the fabric is used on a papermaking machine and at least one of the color and the conductivity of the monofilament is used as one of a trigger for on-line speed measurements or a trigger for a guiding system.

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